

Description: ON-VEHICLE LOW PROFILE ANTENNA

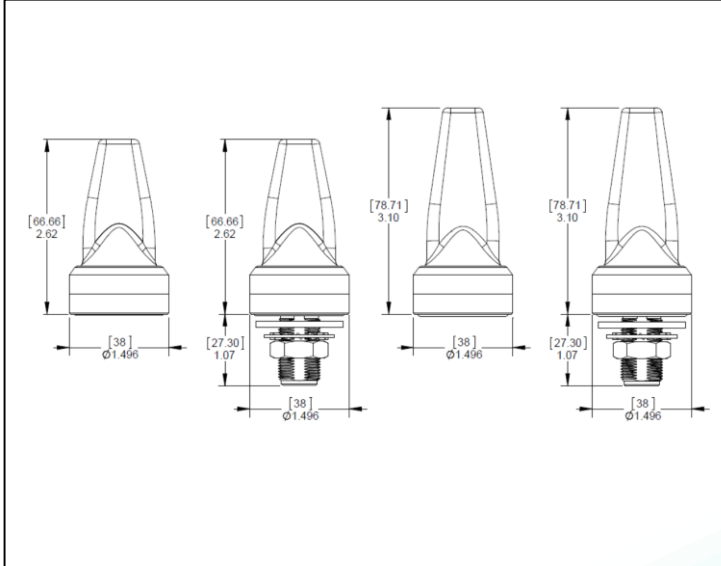
Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW



Features:

- SLPT in Black and White
- Short, slim profile without sacrificing RF or mechanical performance
- Direct and NMO mount models
- IP67 Weatherproof



All dimensions are in mm / inches

Applications:

- Models supporting :
 - Public Safety, LMR
 - Wi-Fi,
 - 3G/4G LTE,
 - ISM
 - DSRC
- Bus/Rail/Transit
- IoT – Vending, metering and other industrial applications
- Outdoor Vehicular

Issue: 1829

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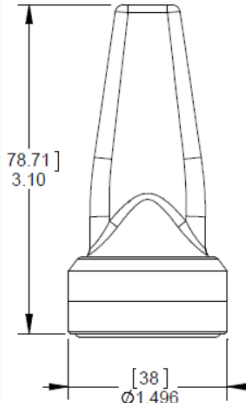
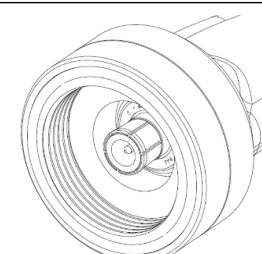
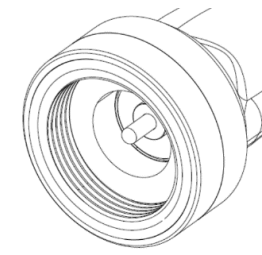
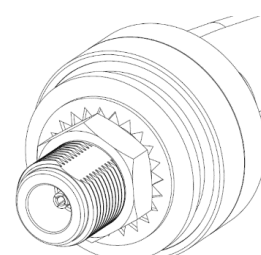
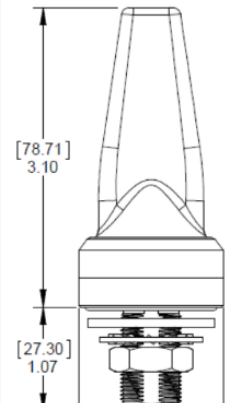
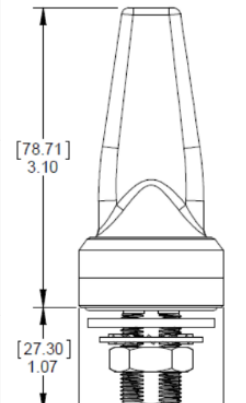
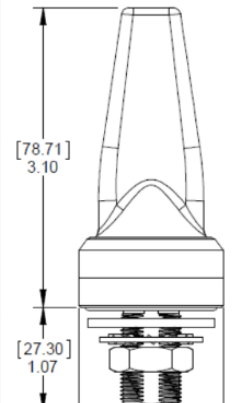


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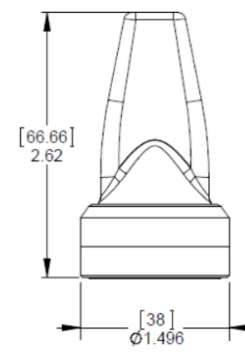
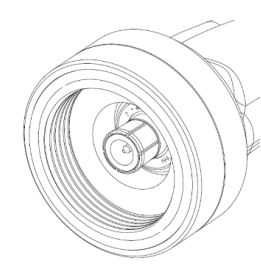
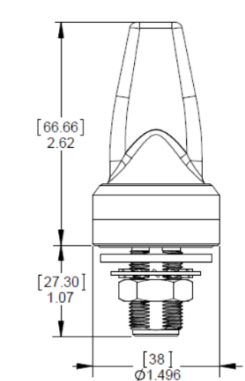
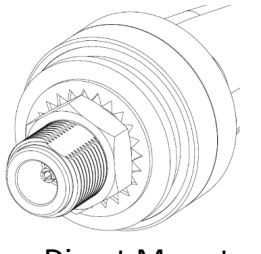
| Project | Color | Frequency | Size | Fixing System Connector | |
|--------------------|-------|----------------------------|--|--|---|
| SLPT698/2170NMOHFW | White | 698-960MHz 1710-2700MHz |  |  NMOHF NMO + HF Connector | |
| SLPT698/2170NMOHF | Black | | | | |
| SLPT698/960NMOW | White | 698-960MHz | |  NMO + Pogo Pin Connector | |
| SLPT698/960NMO | Black | | | | |
| SLPT806NMOW | White | 806-960MHz | | |  Direct Mount N Female Connector (Screw 5/8-24 UNEF 2A) |
| SLPT806NMO | Black | | | | |
| SLPT698/869DMNW | White | 698-869MHz |  | | |
| SLPT698/869DMN | Black | | | | |
| SLPT806DMNW | White | 806-960MHz | |  | |
| SLPT806DMN | Black | | | | |
| SLPT698/2170DMNW | White | 698-960MHz 1710-2700MHz | | |  |
| SLPT698/2170DMN | Black | | | | |

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This document covers all product variants of the following product family:

| Project | Color | Frequency | Size | Fixing System Connector |
|--------------------|-------|------------------------------|---|--|
| SLPT2400NMOHFW | White | 2400-2500MHz |  |  NMOHF NMO + HF Connector |
| SLPT2400NMOHF | Black | | | |
| SLPT4900NMOHFW | White | 4900-6000MHz | | |
| SLPT4900NMOHF | Black | | | |
| SLPT245NMOHFW | White | 2400-2500MHz 4900-6000MHz | | |
| SLPT2400/5900NMOHF | Black | | | |
| SLPT2400DMNW | White | 2400-2500MHz |  |  Direct Mount N Female Connector (Screw 5/8-24 UNEF 2A) |
| SLPT2400DMN | Black | | | |
| SLPT4900DMNW | White | 4900-6000MHz | | |
| SLPT4900DMN | Black | | | |
| SLPT2400/5900DMNW | White | 2400-2500MHz 4900-6000MHz | | |
| SLPT2400/5900DMN | Black | | | |

P.S.: For DMN fixing system, it requires a 5/8" (16mm) hole in the mounting surface.

Remove any burrs, particularly on the Roof under side of the hole. Remove paint in a narrow ring around the hole. Metal-to-metal contact between the mounting surface and mount is essential for best performance.

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ELECTRICAL SPECIFICATIONS

| Project | Frequency | VSWR | Peak Gain | Efficiency | Power Handling |
|--------------------|----------------------------|---|---|------------|---|
| SLPT698/2170NMOHFW | 698-960MHz 1710-2700MHz | 3.3:1(0.698-0.96GHz) 2:1(1.71-2.5GHz) 2.2:1(2.5-2.7GHz) | 3.52dBi(0.698-0.96GHz) 4.95dBi(1.71-2.69GHz) | 72% 71% | 40W(100% duty cycle) 50W(50% duty cycle) |
| SLPT698/2170NMOHF | | | | | |
| SLPT698/960NMOW | 698-960MHz | 2:1 | 3.29dBi | 68% | 35W(100% duty cycle) 40W(50% duty cycle) |
| SLPT698/960NMO | | | | | |
| SLPT806NMOW | 806-960MHz | 2:1 | 3.18dBi | 67% | 35W(100% duty cycle) 40W(50% duty cycle) |
| SLPT806NMO | | | | | |
| SLPT698/869DMNW | 698-869MHz | 2:1 | 3.26dBi | 72% | 30W(100% duty cycle) 40W(50% duty cycle) |
| SLPT698/869DMN | | | | | |
| SLPT806DMNW | 806-960MHz | 2:1 | 3.05dBi | 70% | 40W(100% duty cycle) 45W(50% duty cycle) |
| SLPT806DMN | | | | | |
| SLPT698/2170DMNW | 698-960MHz 1710-2700MHz | 3.3:1(0.698-0.96GHz) 2:1(1.71-2.5GHz) 2.2:1(2.5-2.7GHz) | 3.51dBi(0.698-0.96GHz) 4.81dBi(1.71-2.69GHz) | 76% 67% | 40W(100% duty cycle) 50W(50% duty cycle) |
| SLPT698/2170DMN | | | | | |

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ELECTRICAL SPECIFICATIONS

| Project | Frequency | VSWR | Peak Gain | Efficiency | Power Handling |
|--------------------|------------------------------|------------------------------------|--------------------|------------|----------------------|
| SLPT2400NMOHFW | 2400-2500MHz | 2:1 | 5.06dBi | 79% | 35W(100% duty cycle) |
| SLPT2400NMOHF | | | | | 45W(50% duty cycle) |
| SLPT4900NMOHFW | 4900-6000MHz | 2.2:1 | 5.09dBi | 71% | 35W(100% duty cycle) |
| SLPT4900NMOHF | | | | | 45W(50% duty cycle) |
| SLPT245NMOHFW | 2400-2500MHz 4900-6000MHz | 2:1(2.4-2.5GHz) 2.2:1(4.9-6GHz) | 5.06dBi 5.09dBi | 79% 71% | 35W(100% duty cycle) |
| SLPT2400/5900NMOHF | | | | | 45W(50% duty cycle) |
| SLPT2400DMNW | 2400-2500MHz | 2:1 | 4.78dBi | 75% | 35W(100% duty cycle) |
| SLPT2400DMN | | | | | 45W(50% duty cycle) |
| SLPT4900DMNW | 4900-6000MHz | 2.2:1 | 5.14dBi | 73% | 35W(100% duty cycle) |
| SLPT4900DMN | | | | | 45W(50% duty cycle) |
| SLPT2400/5900DMNW | 2400-2500MHz 4900-6000MHz | 2:1(2.4-2.5GHz) 2.2:1(4.9-6GHz) | 4.78dBi 5.14dBi | 79% 73% | 35W(100% duty cycle) |
| SLPT2400/5900DMN | | | | | 45W(50% duty cycle) |

Nominal Impedance

50Ω

Radiation Pattern

omni

Polarization:

Vertical

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| | |
|--------------------|---------------|
| Plastic radome | PC |
| Color | White / Black |
| Ingress Protection | IP67 |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------|--------------|
| Operating temperature | -40 ~ +85° C |
|-----------------------|--------------|

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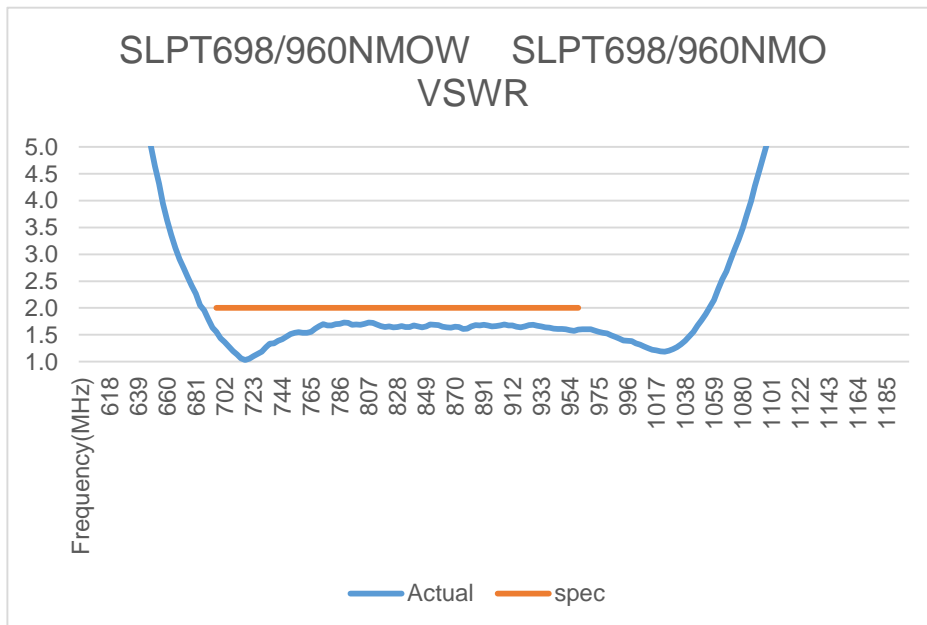
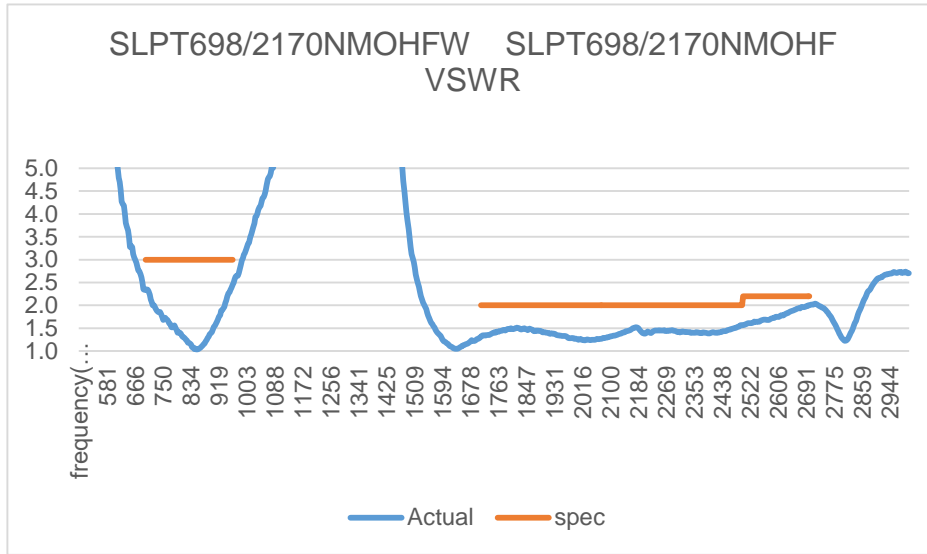
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CHARTS

VSWR



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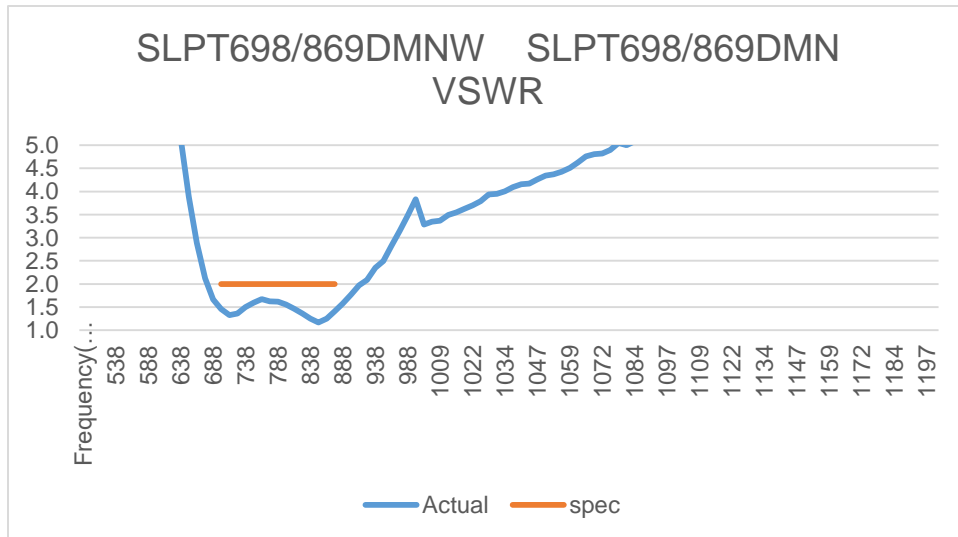
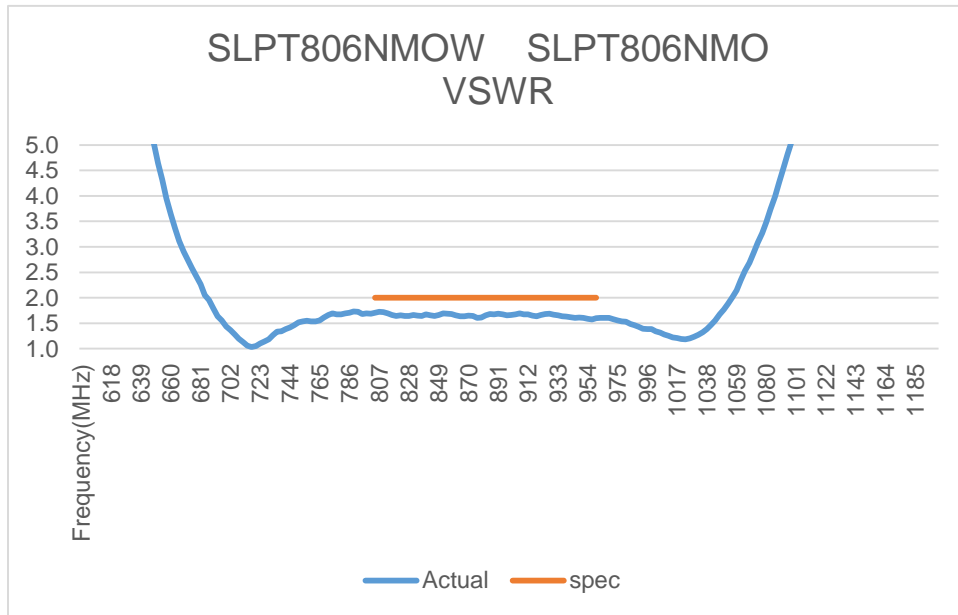
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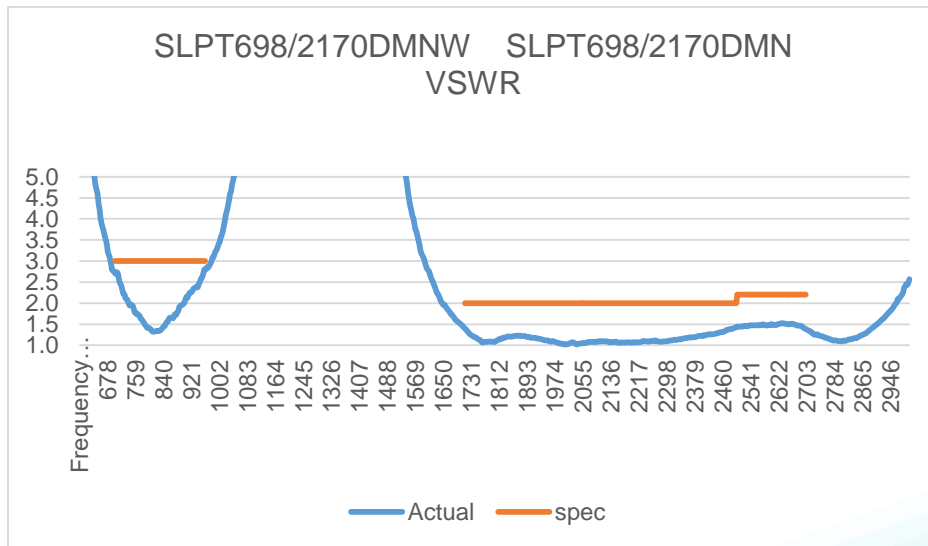
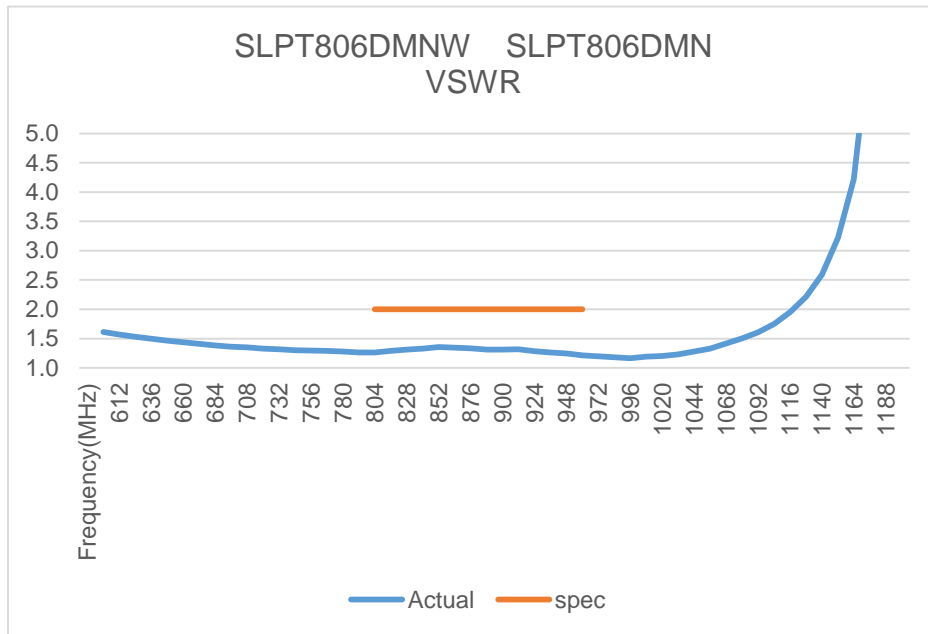
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VSWR



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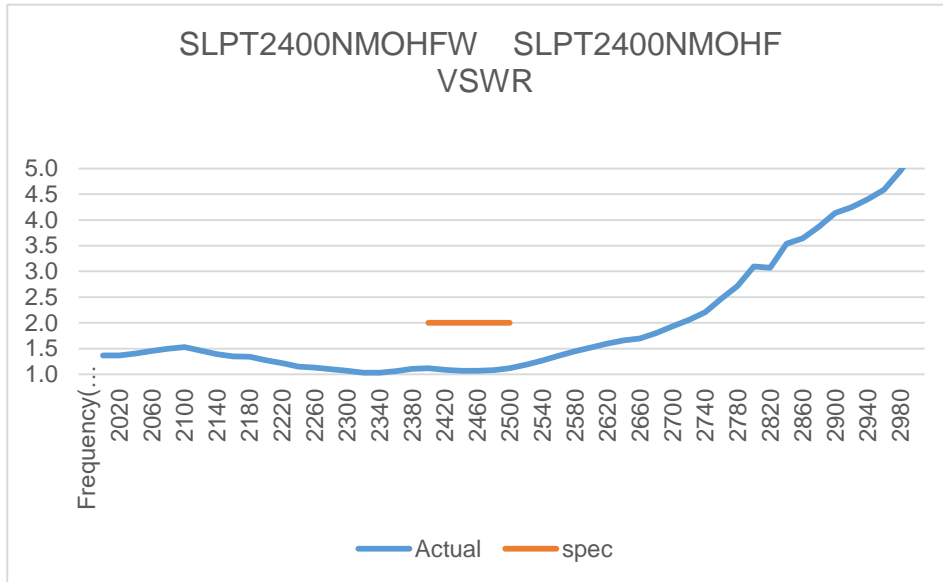
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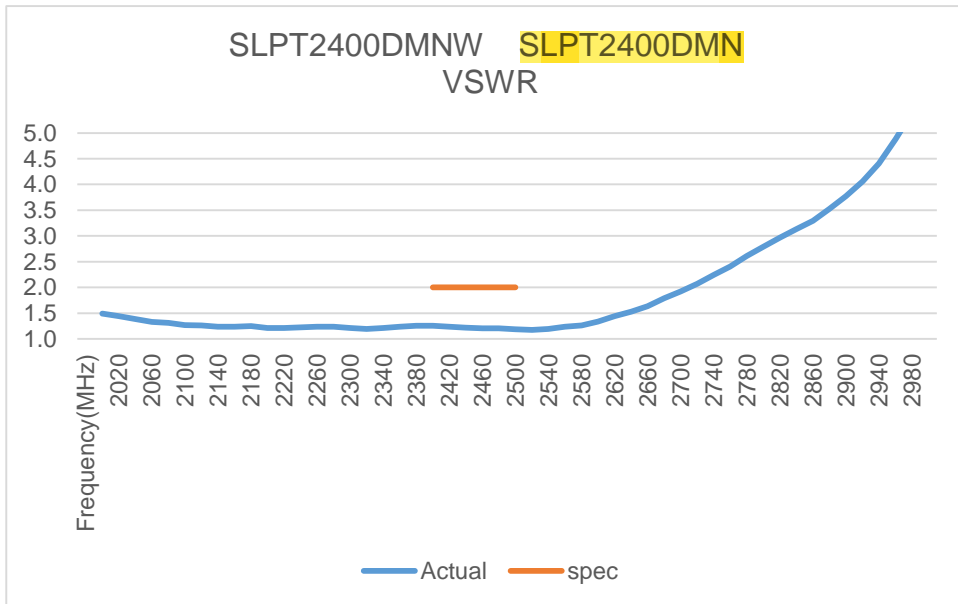
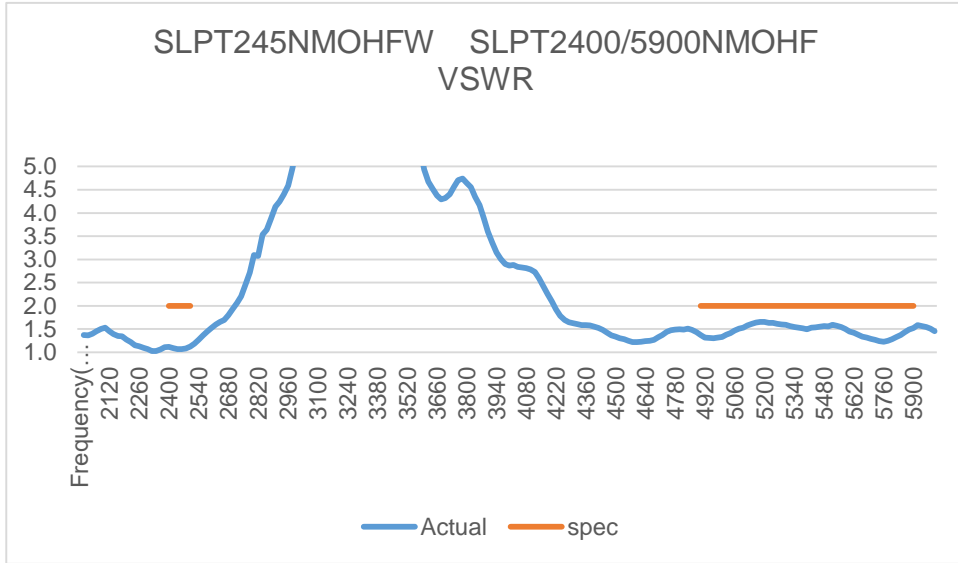
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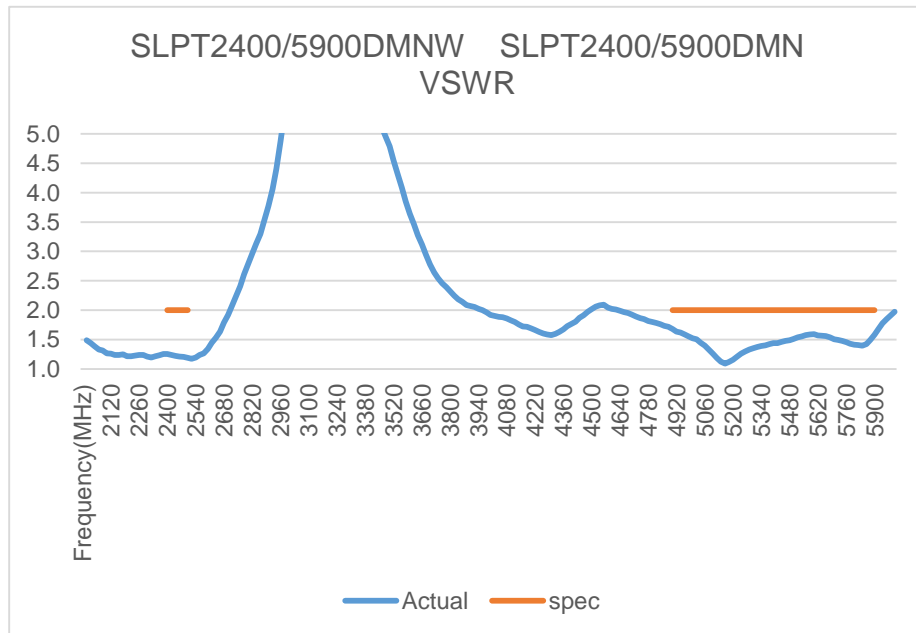
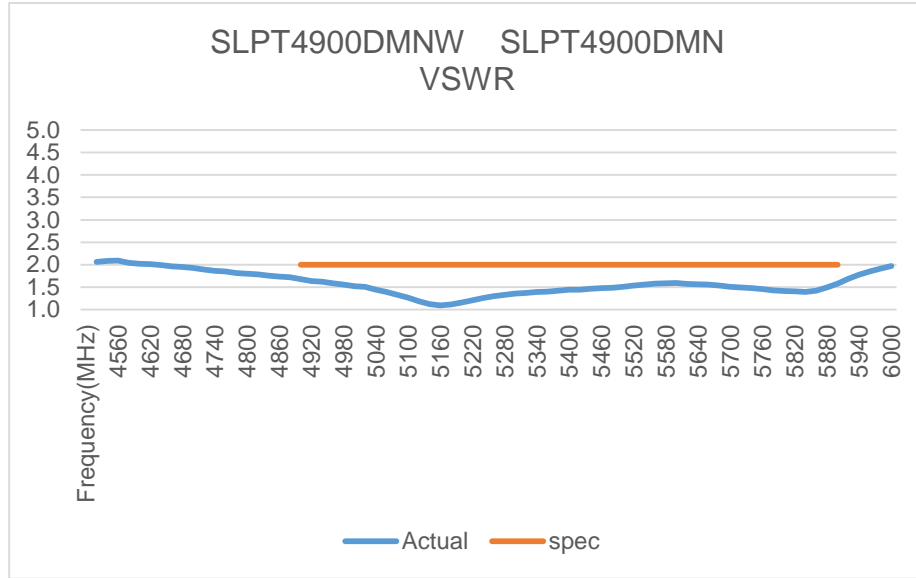
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VSWR



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CHARTS

Efficiency(%)



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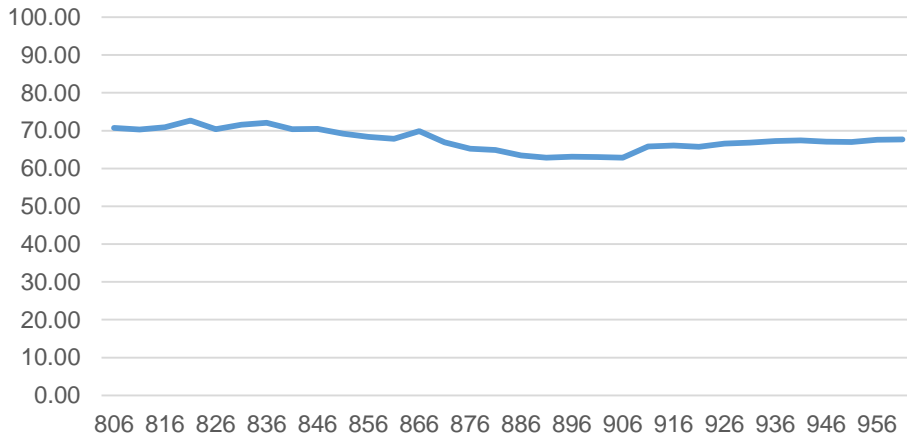
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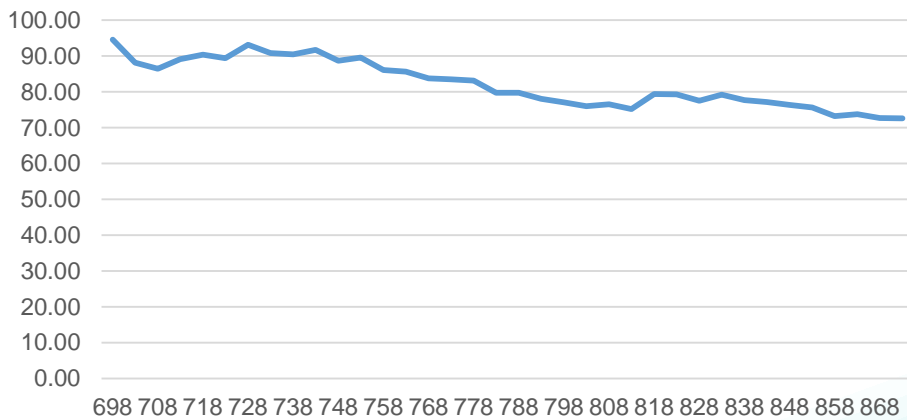
CHARTS

Efficiency(%)

SLPT806NMOW SLPT806NMO
Efficiency (%)



SLPT698/869DMNW SLPT698/869DMN
Efficiency (%)



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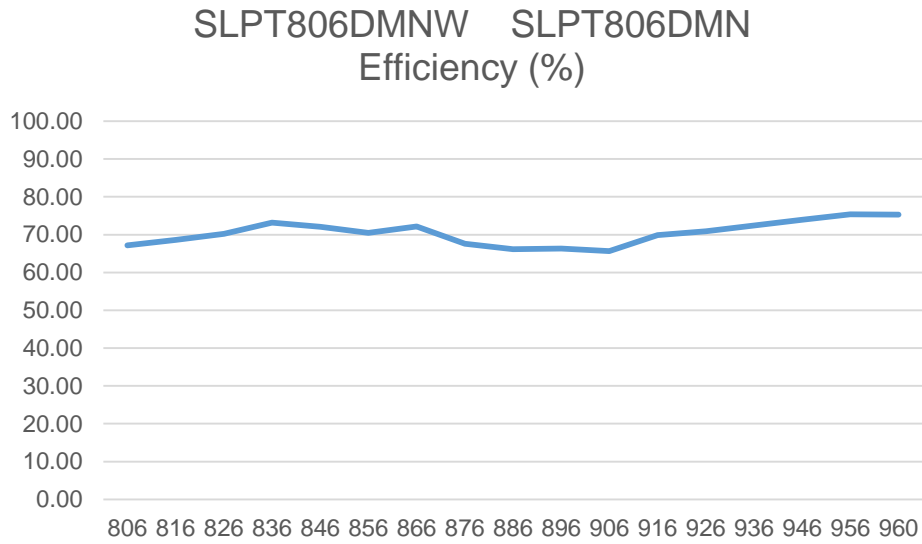
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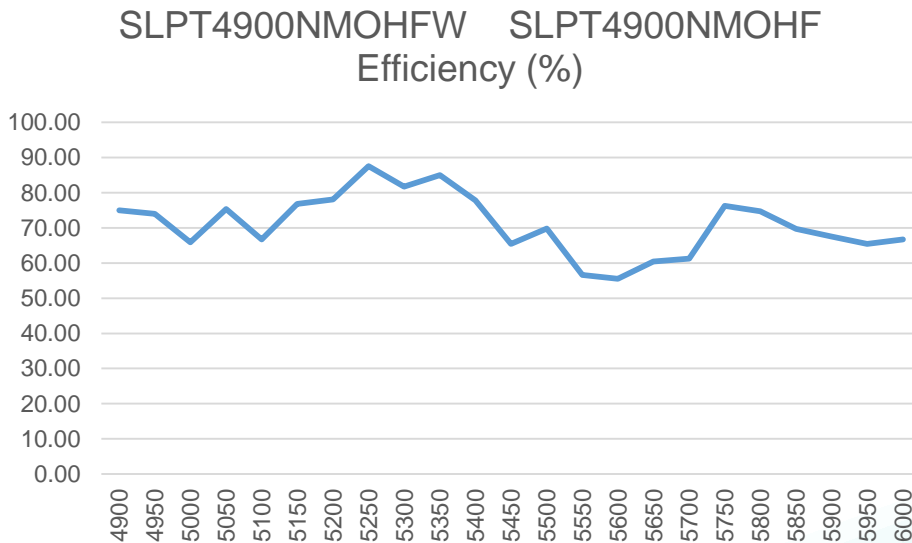
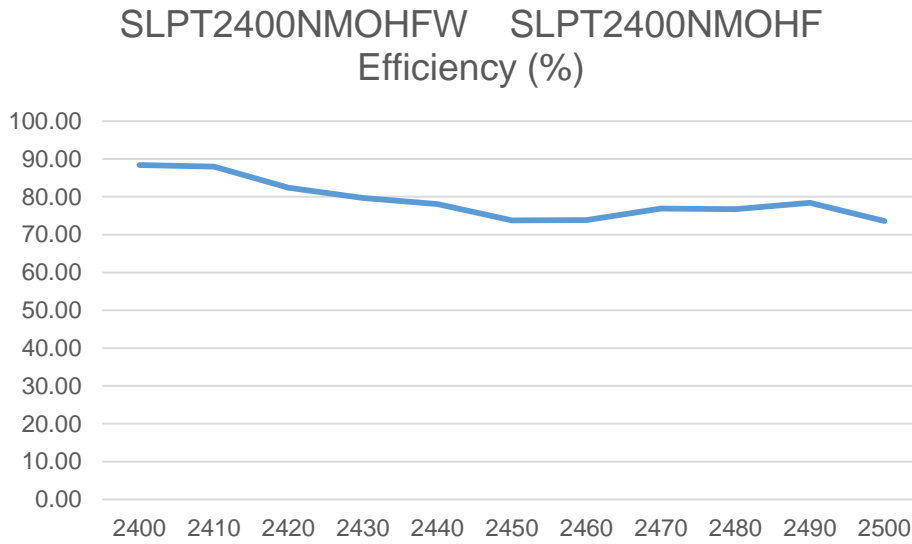
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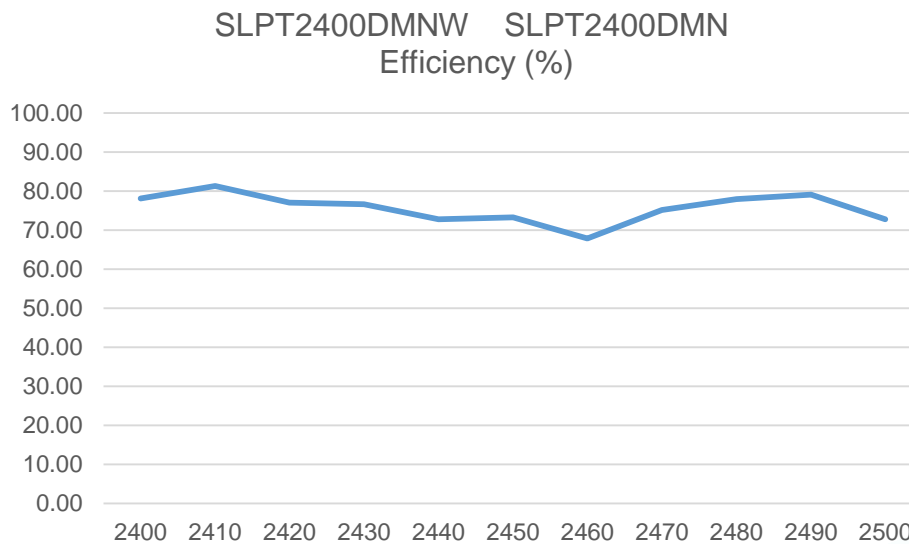
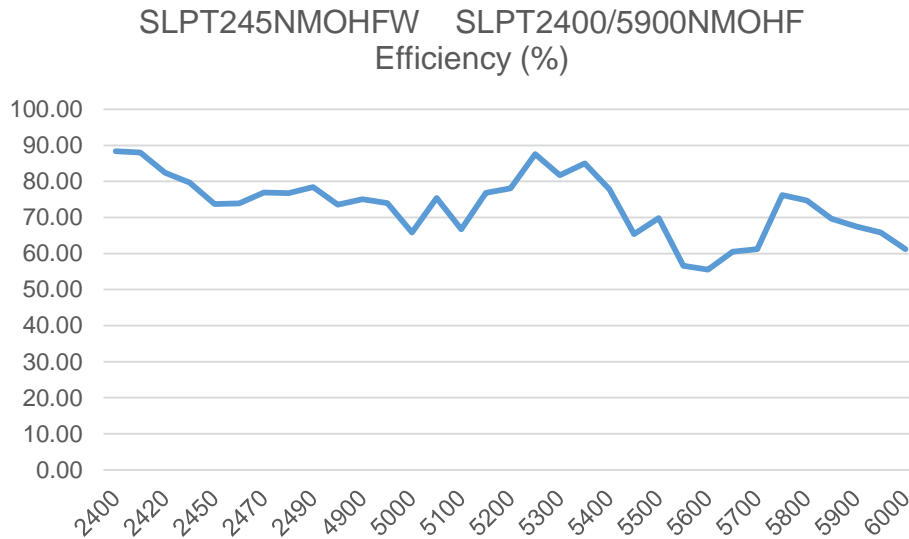
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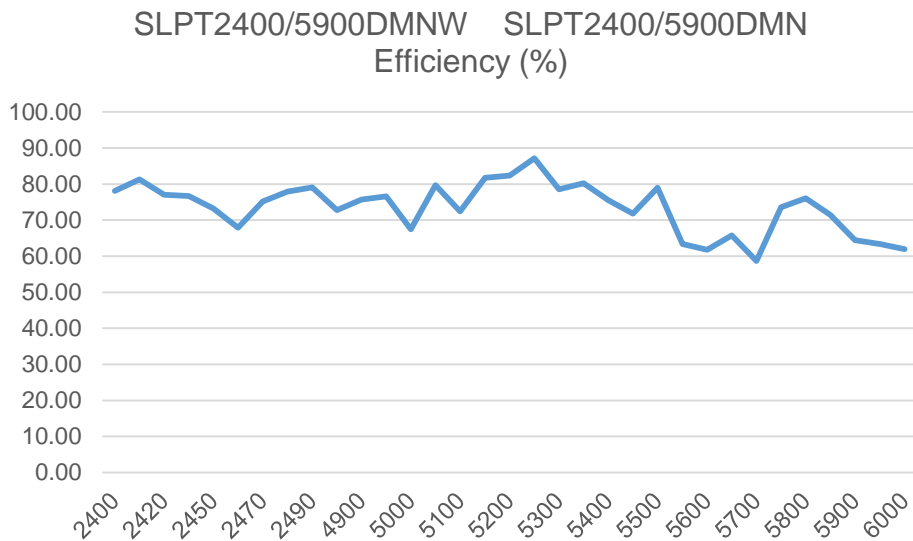
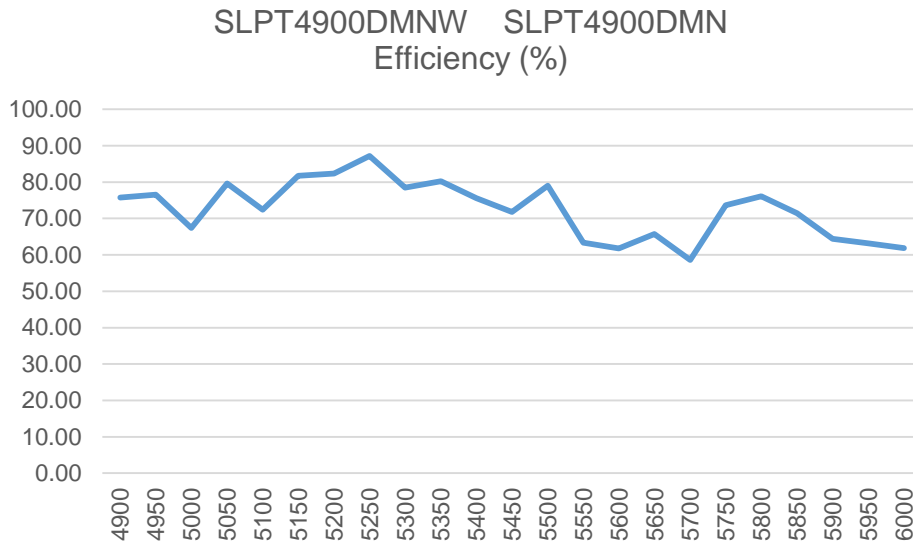
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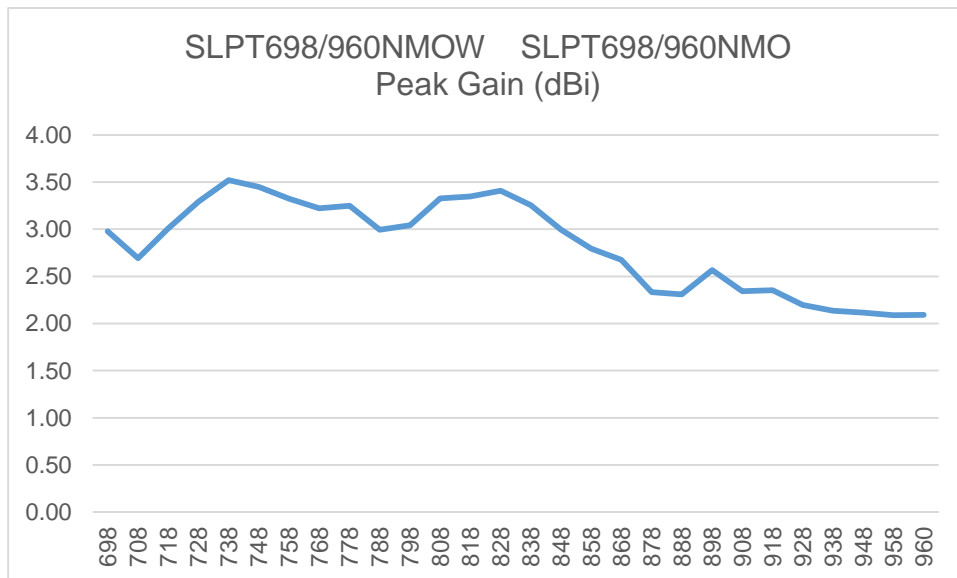
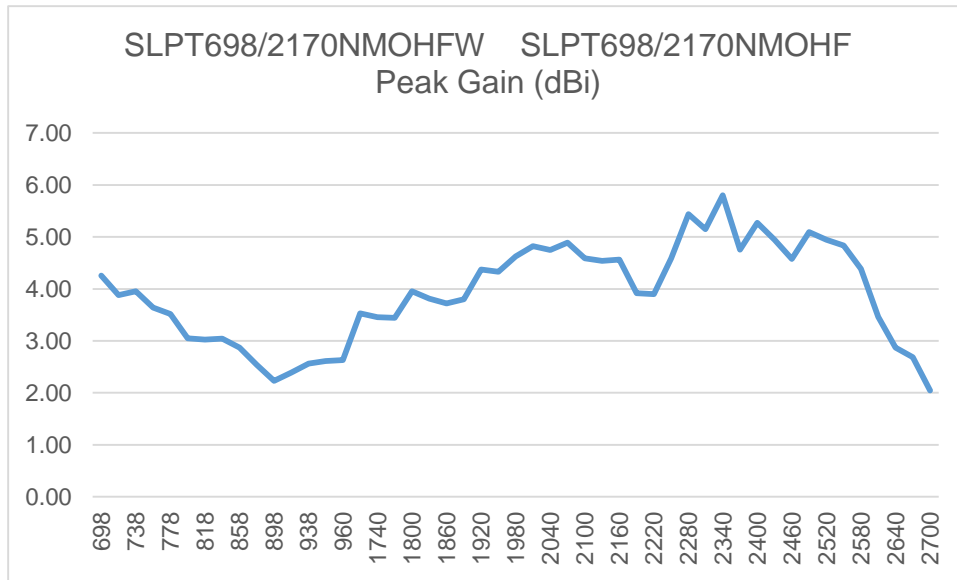
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CHARTS

Peak Gain (dBi)



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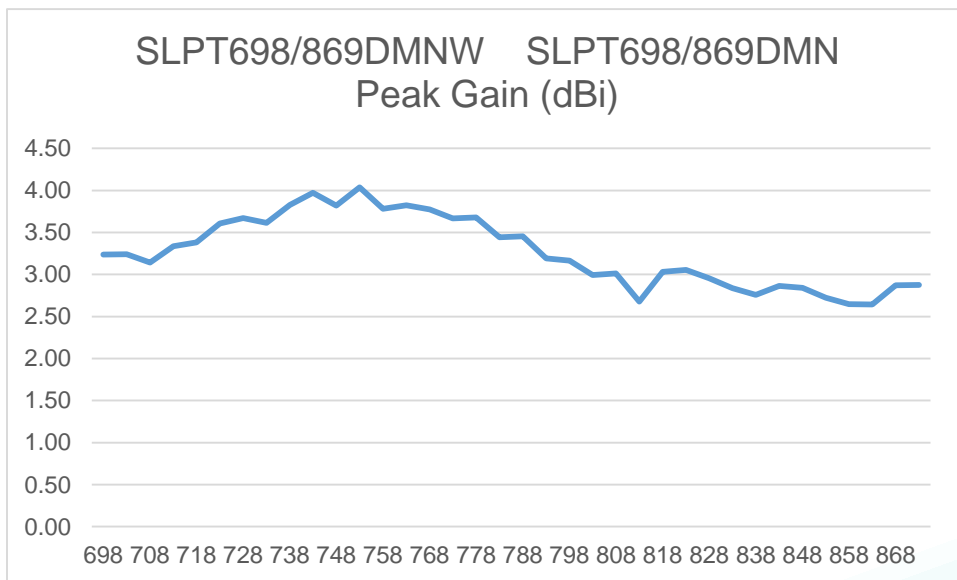
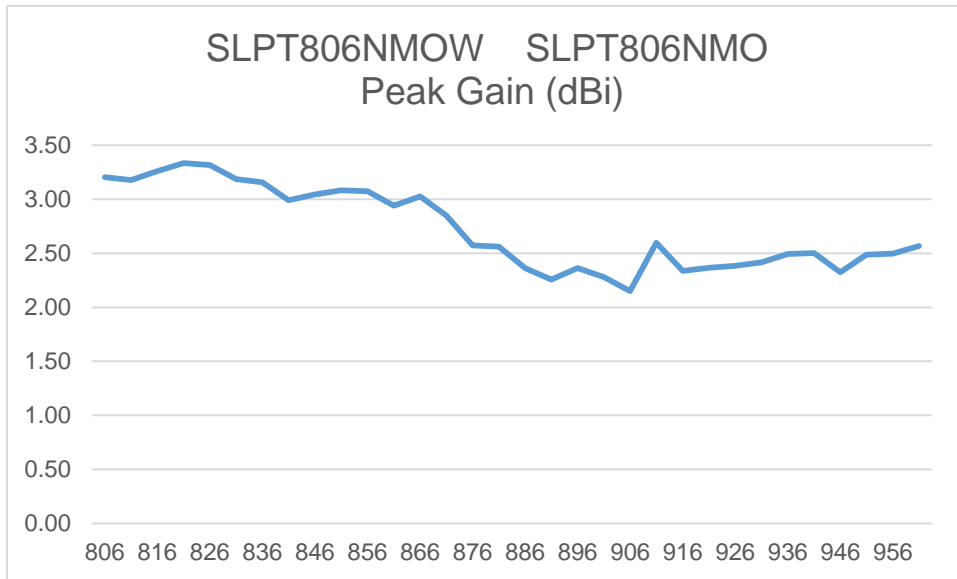
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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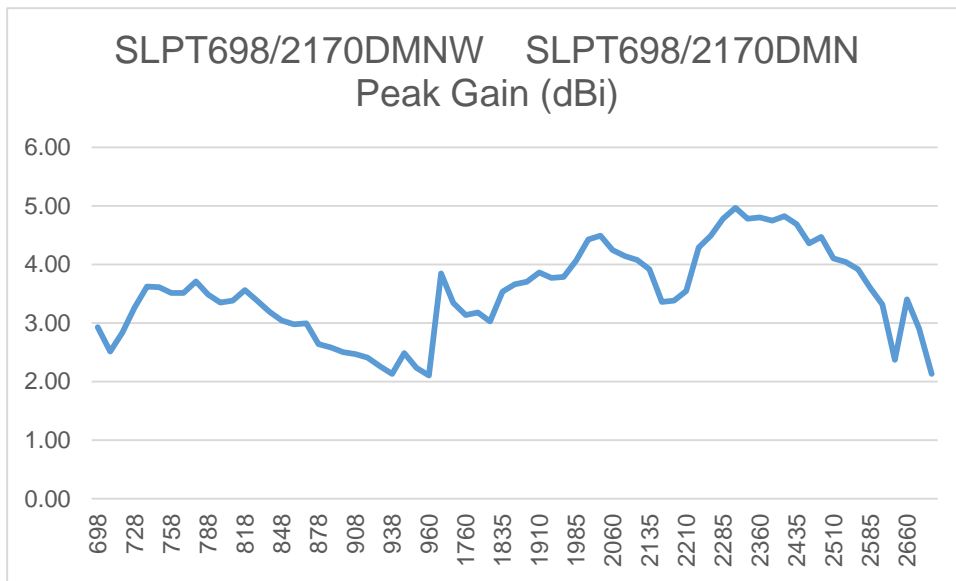
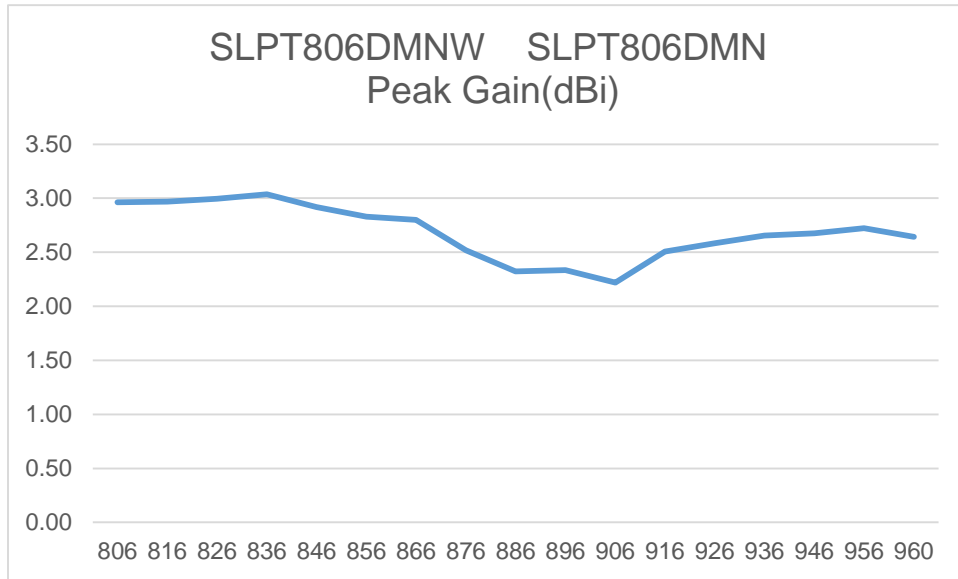
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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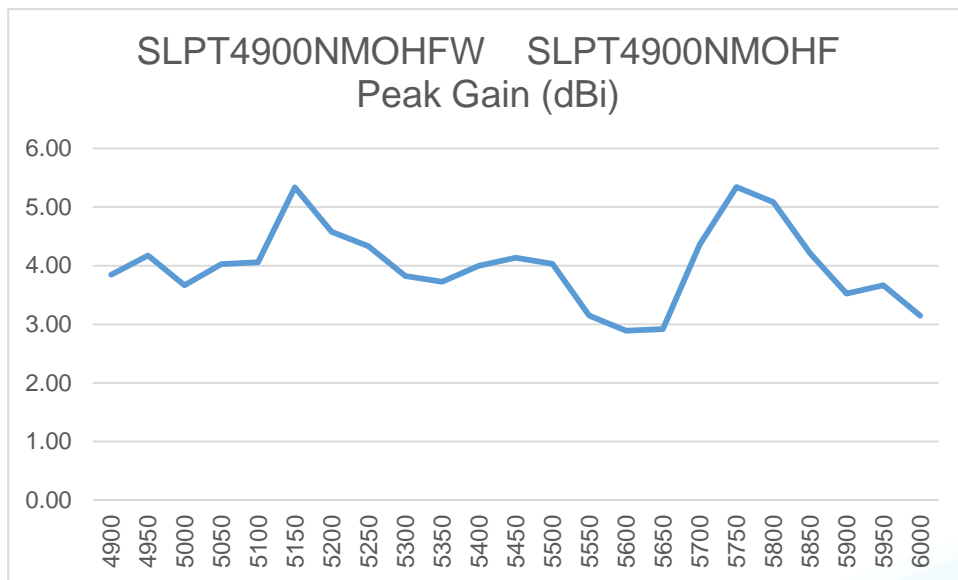
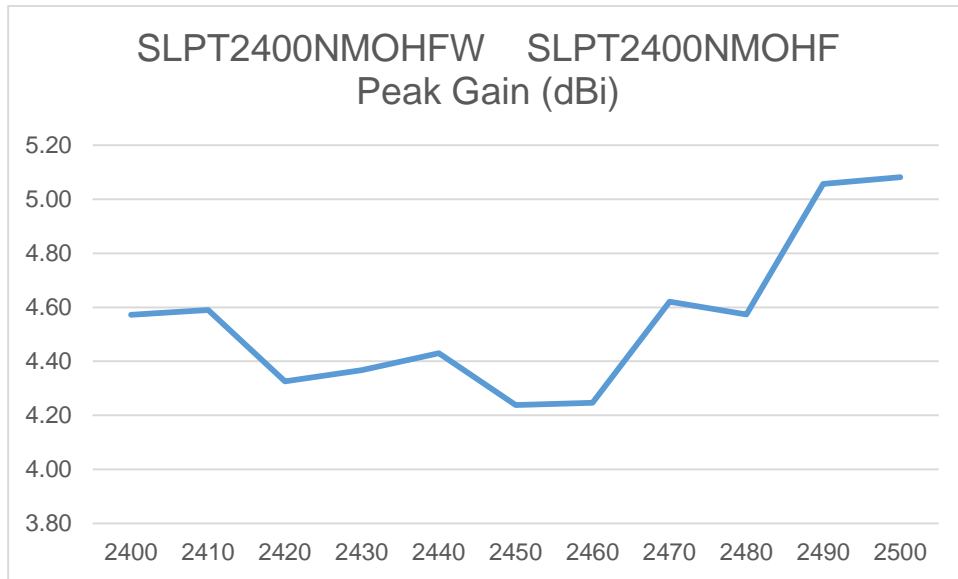
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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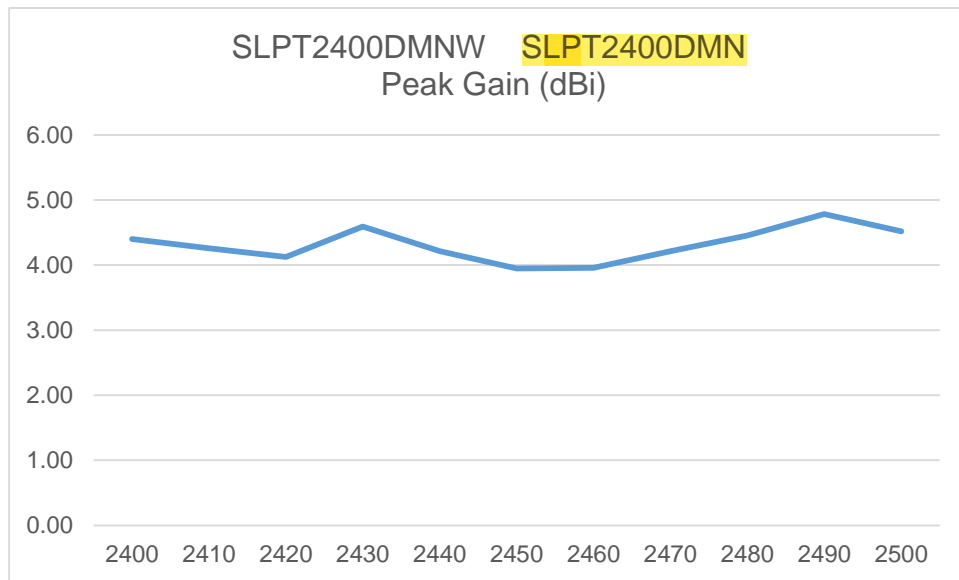
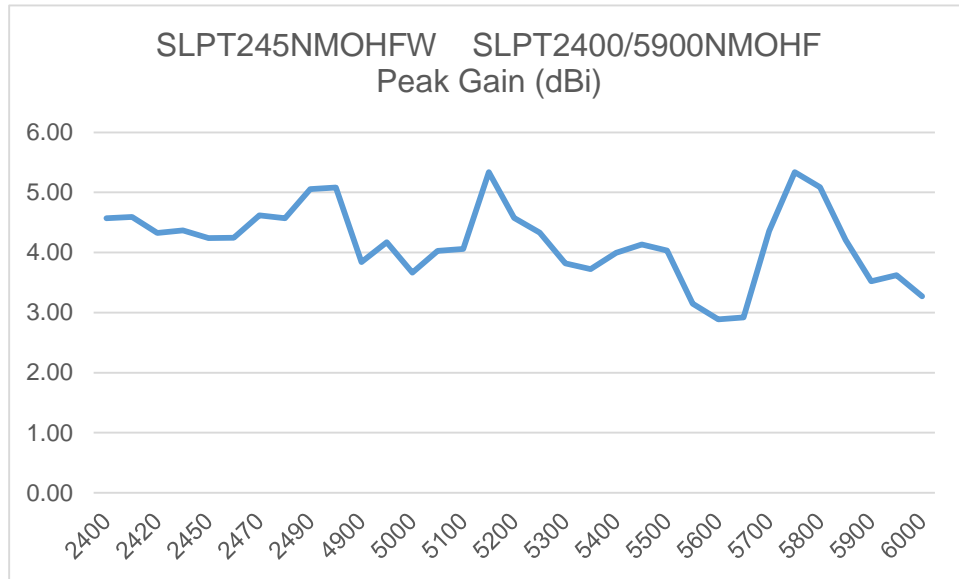
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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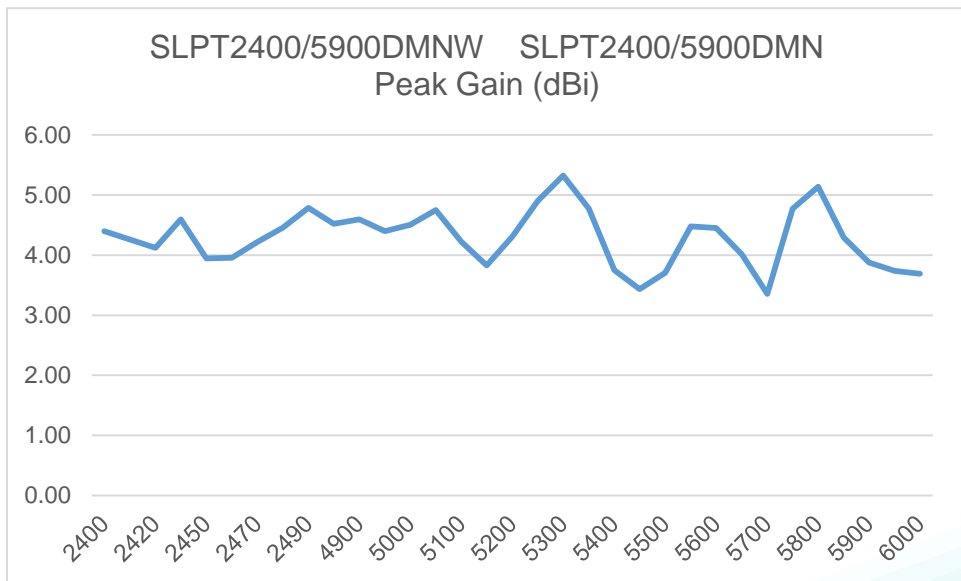
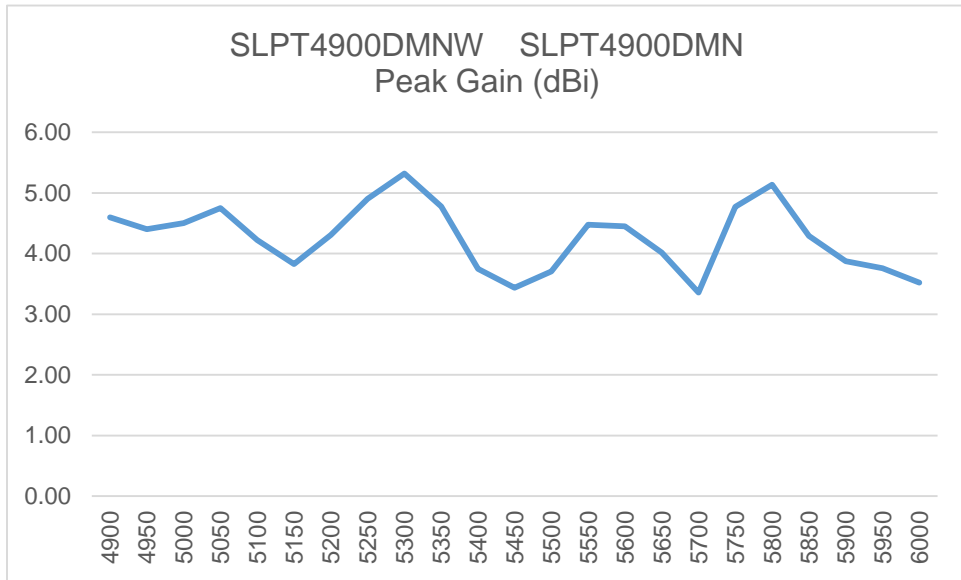
Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

Peak Gain (dBi)



Issue: 1829

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Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

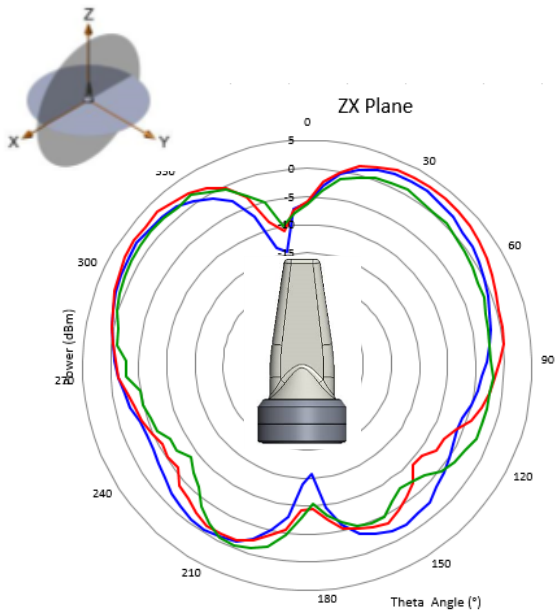
CHARTS

Free Space Radiation Pattern

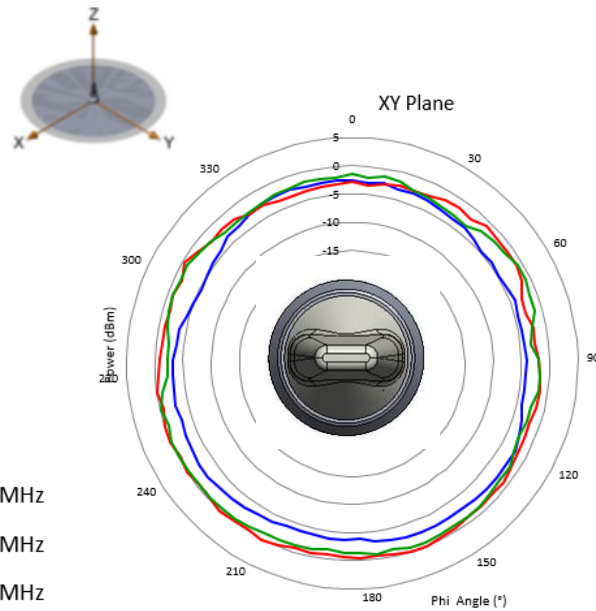
SLPT698/2170NMOHFW SLPT698/2170NMOHF

Elevation Plane

Horizontal Plane



— 698MHz
— 836MHz
— 960MHz



— 698MHz
— 836MHz
— 960MHz

Issue: 1829

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Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

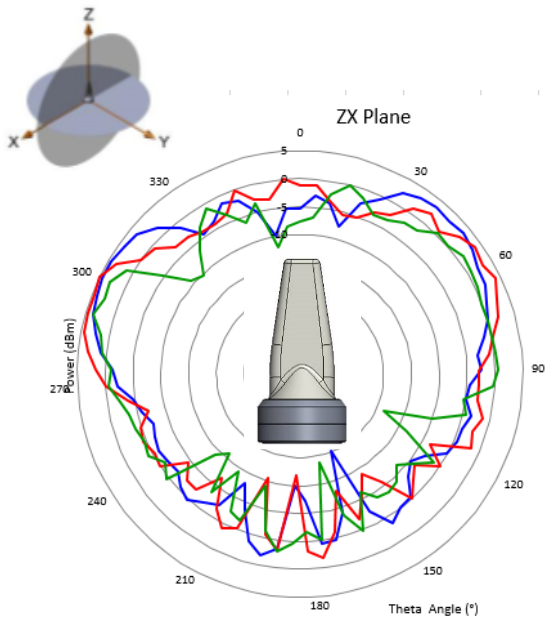
CHARTS

Free Space Radiation Pattern

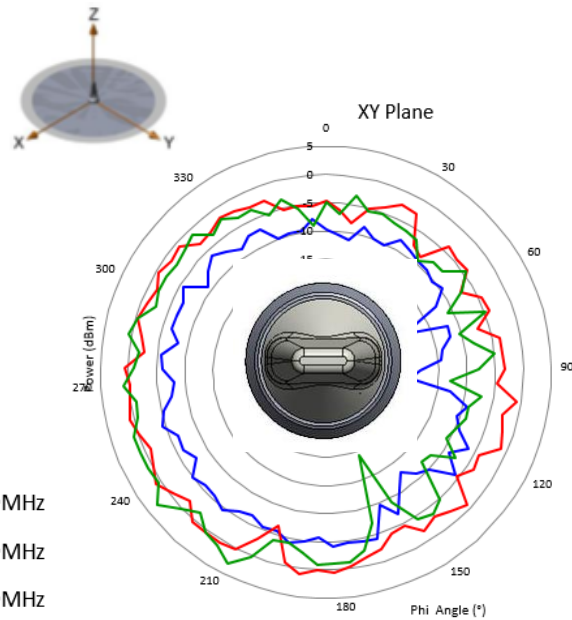
SLPT698/2170NMOHFW SLPT698/2170NMOHF

Elevation Plane

Horizontal Plane



— 1710MHz
— 2200MHz
— 2690MHz



— 1710MHz
— 2200MHz
— 2690MHz

Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

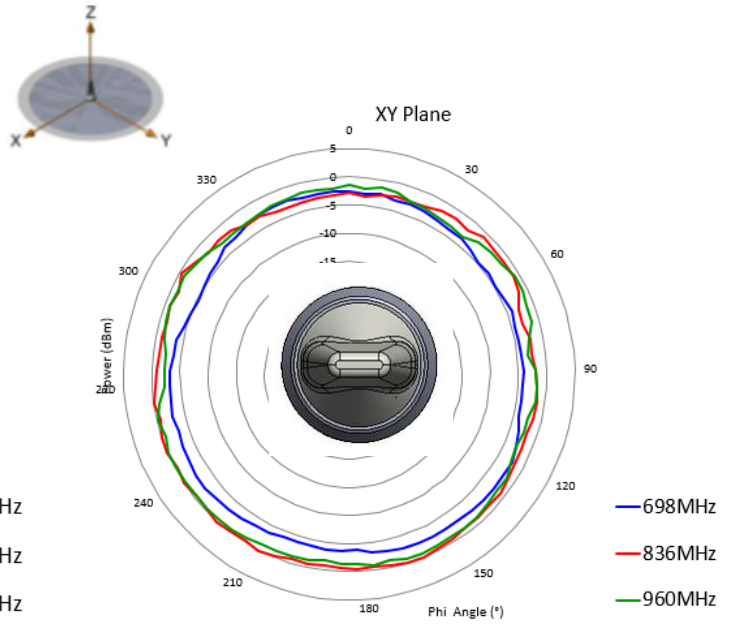
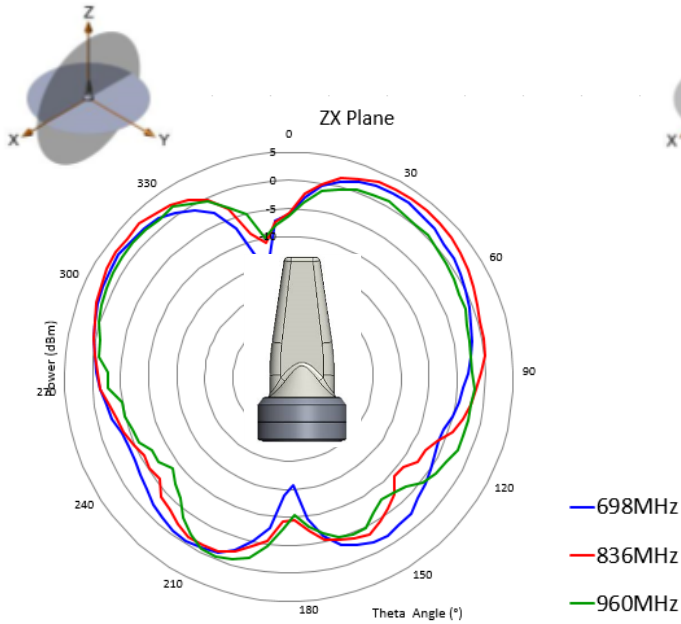
CHARTS

Free Space Radiation Pattern

SLPT698/960NMOW SLPT698/960NMO

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

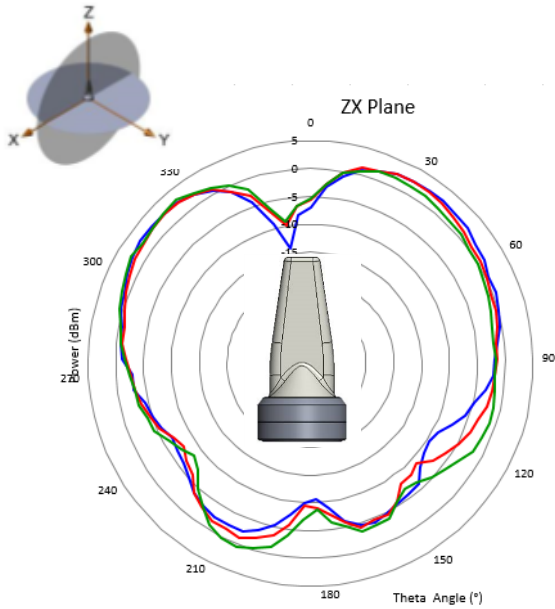
CHARTS

Free Space Radiation Pattern

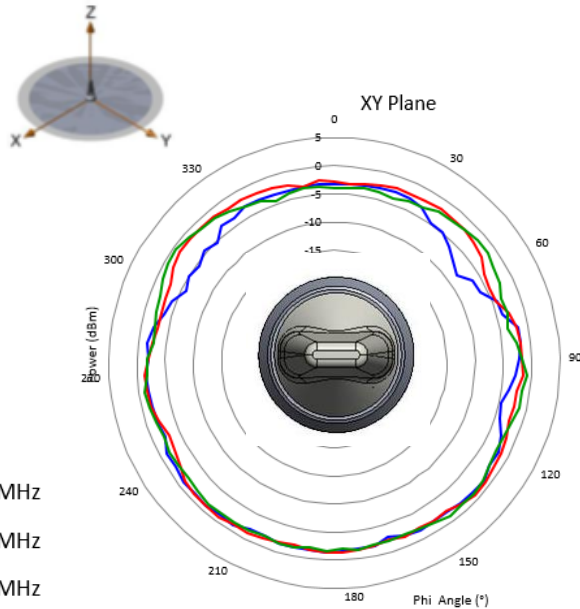
SLPT806NMOW SLPT806NMO

Elevation Plane

Horizontal Plane



— 806MHz
— 889MHz
— 960MHz



— 806MHz
— 885MHz
— 960MHz

Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

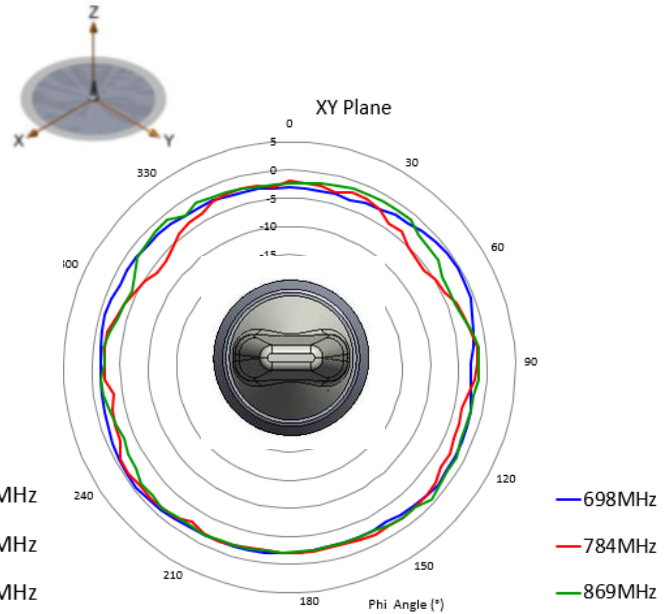
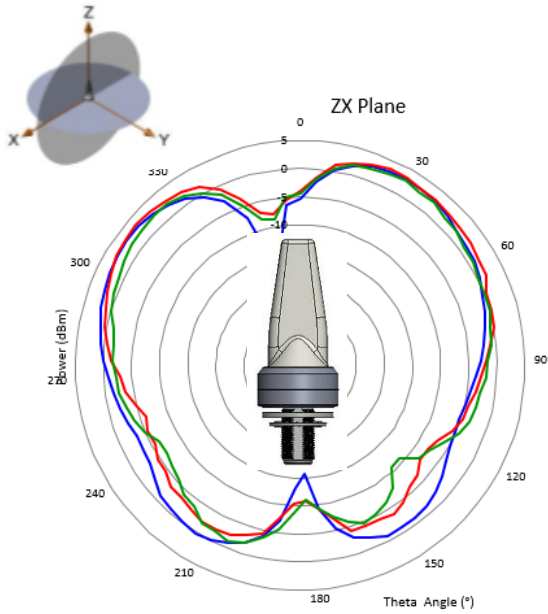
CHARTS

Free Space Radiation Pattern

SLPT698/869DMNW SLPT698/869DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

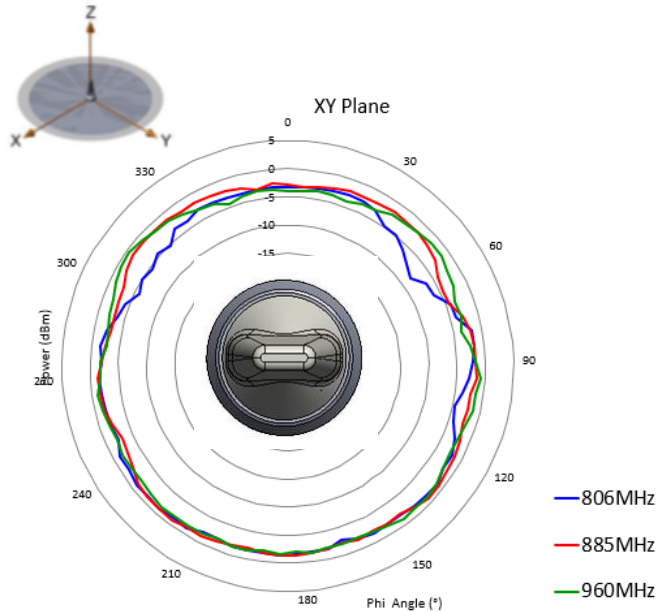
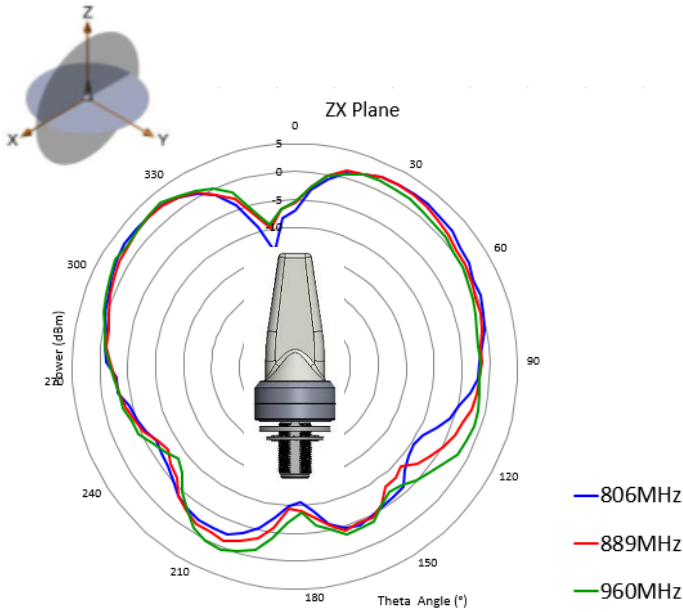
CHARTS

Free Space Radiation Pattern

SLPT806DMNW SLPT806DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

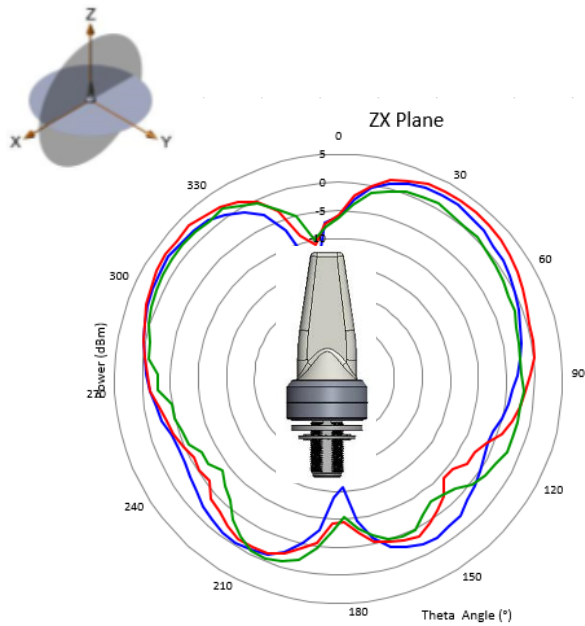
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

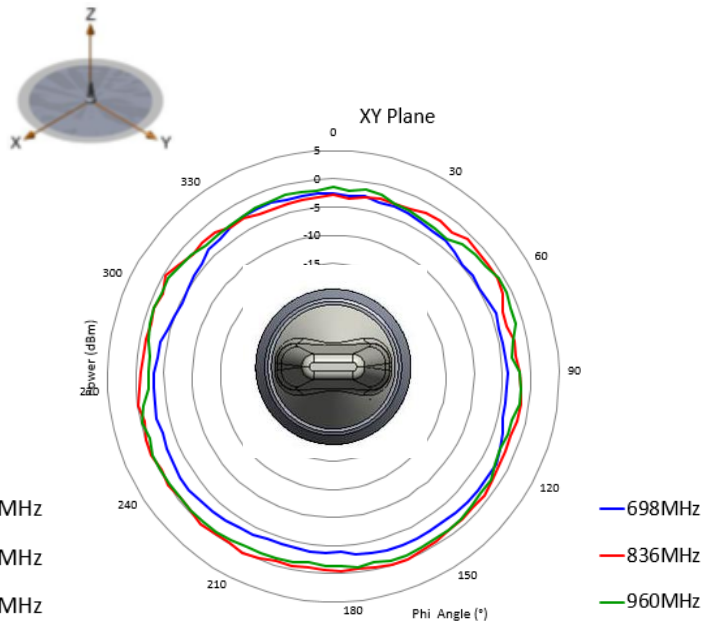
Free Space Radiation Pattern

SLPT698/2170DMNW SLPT698/2170DMN

Elevation Plane



Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

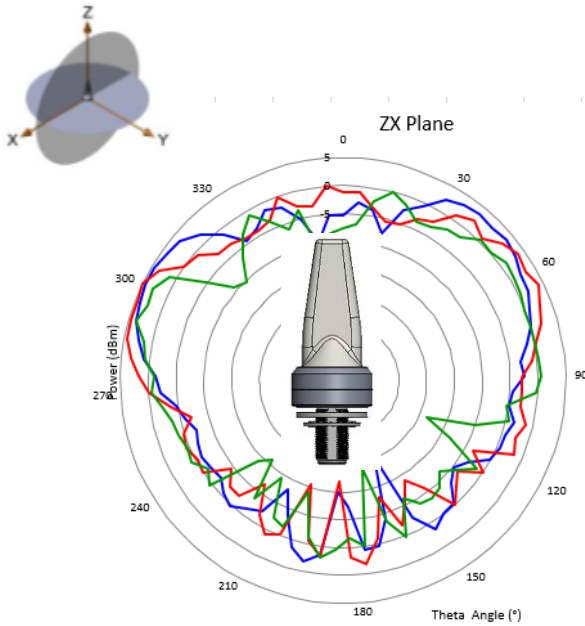
CHARTS

Free Space Radiation Pattern

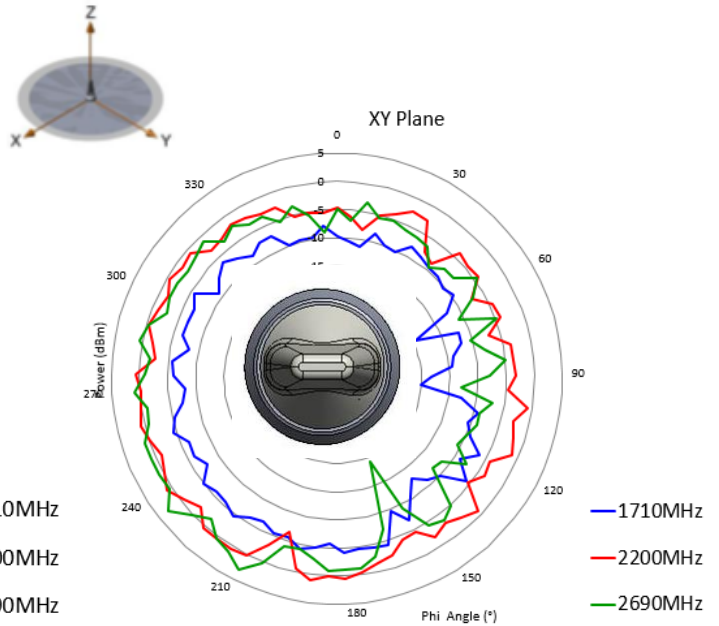
SLPT698/2170DMNW SLPT698/2170DMN

Elevation Plane

Horizontal Plane



— 1710MHz
— 2200MHz
— 2690MHz



— 1710MHz
— 2200MHz
— 2690MHz

Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

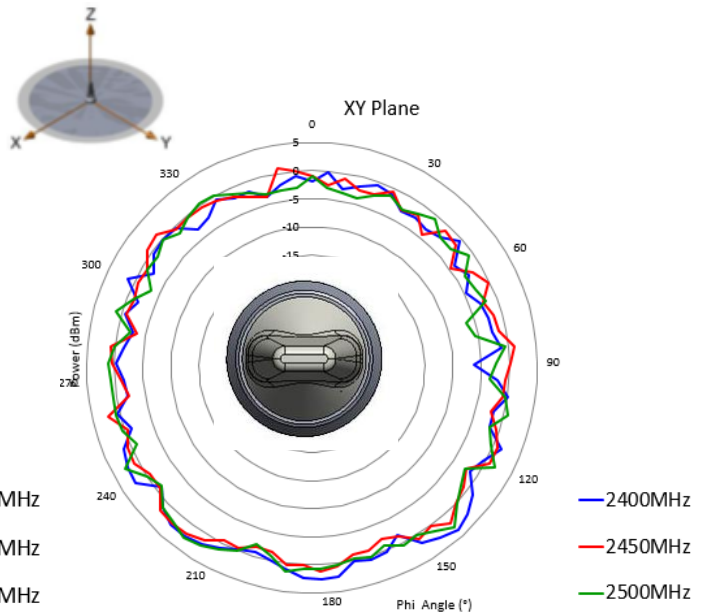
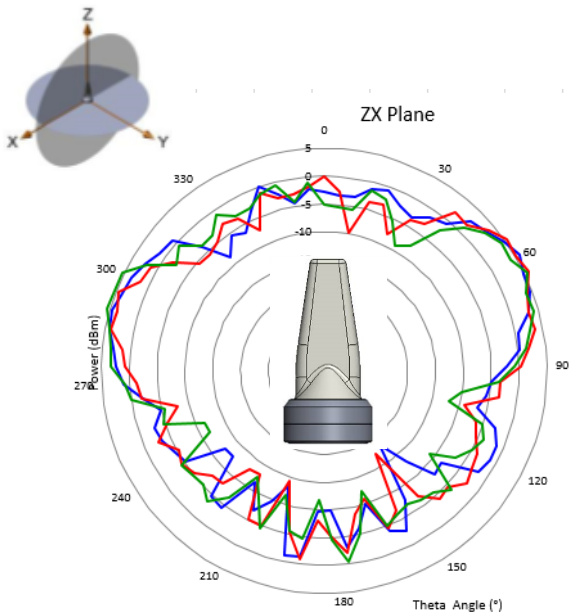
CHARTS

Free Space Radiation Pattern

SLPT2400NMOHFW SLPT2400NMOHF

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

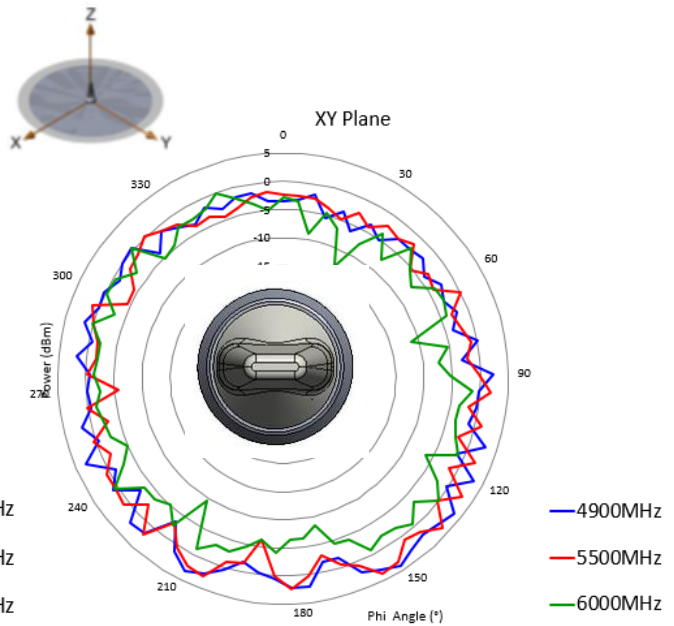
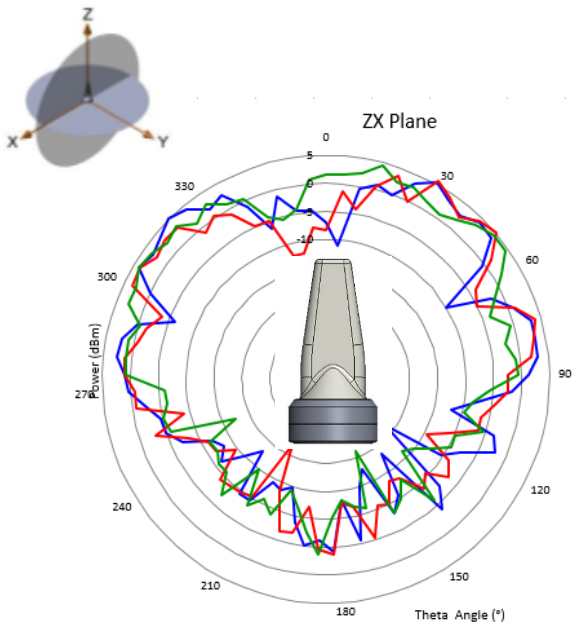
CHARTS

Free Space Radiation Pattern

SLPT4900NMOHFW SLPT4900NMOHF

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

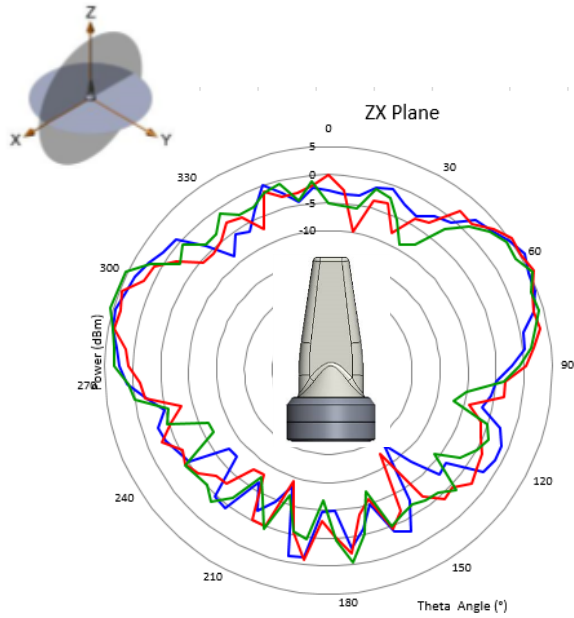
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

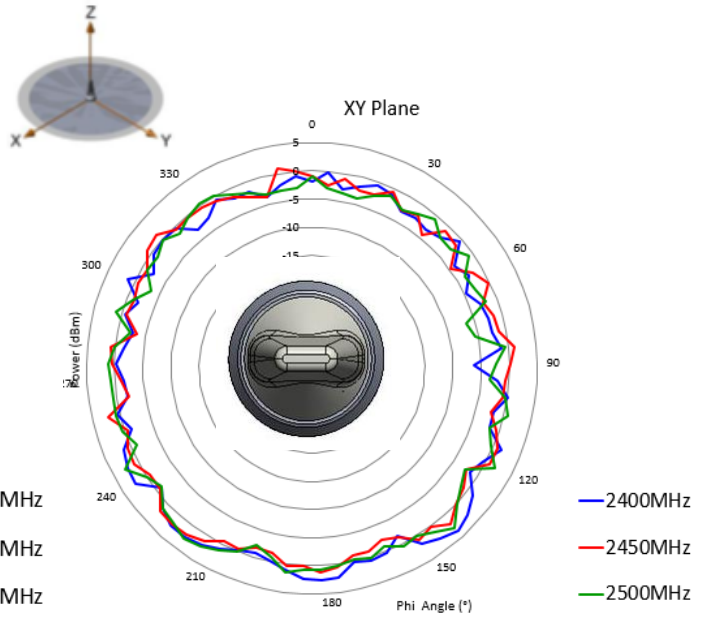
Free Space Radiation Pattern

SLPT245NMOHFW SLPT2400/5900NMOHF

Elevation Plane



Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

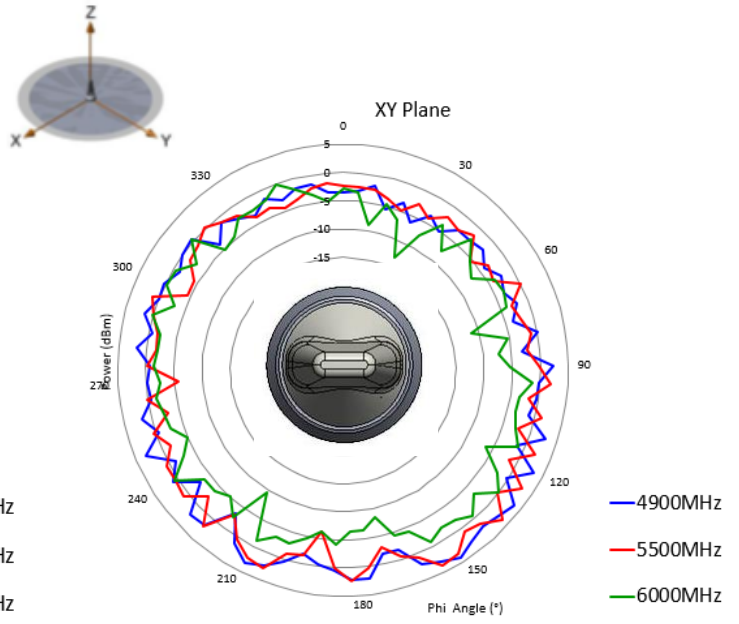
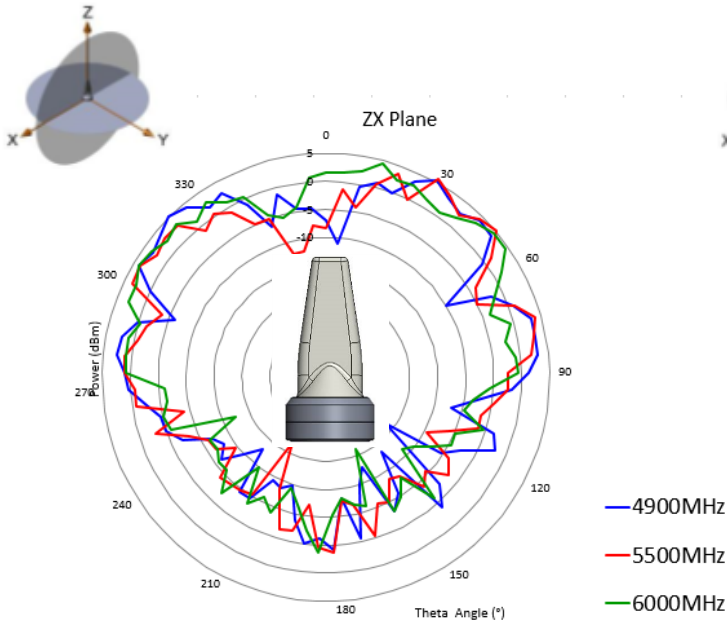
CHARTS

Free Space Radiation Pattern

SLPT245NMOHFW SLPT2400/5900NMOHF

Elevation Plane

Horizontal Plane



Issue: 1829

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Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

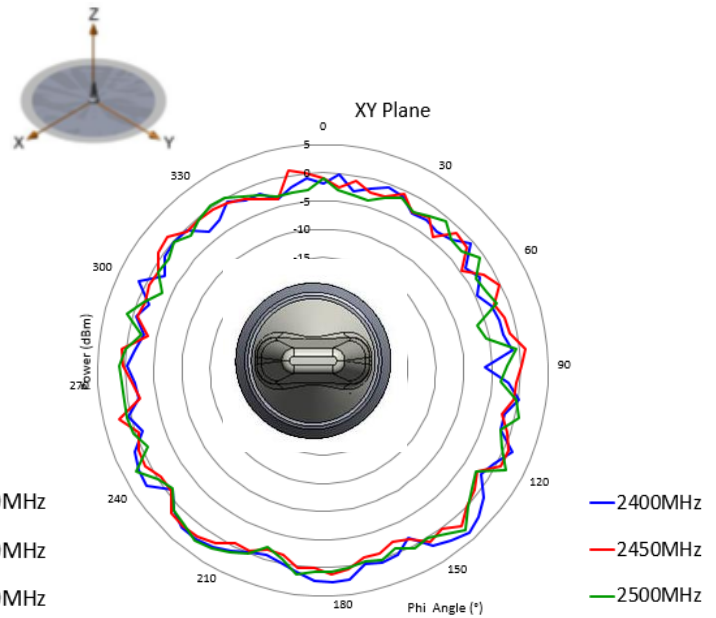
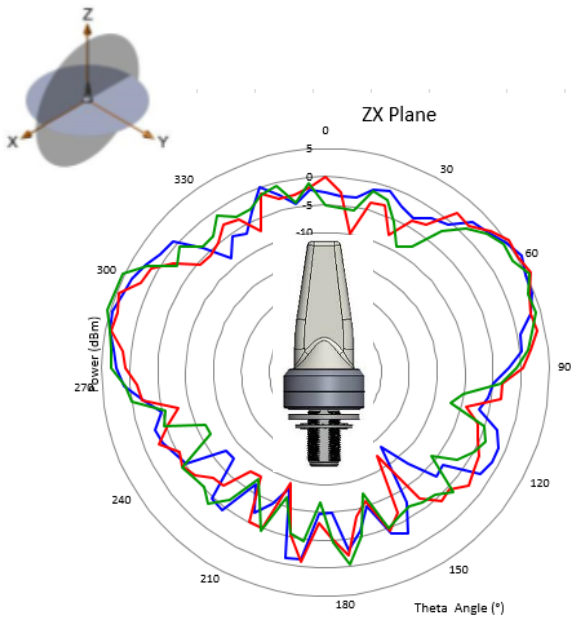
CHARTS

Free Space Radiation Pattern

SLPT2400DMNW SLPT2400DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

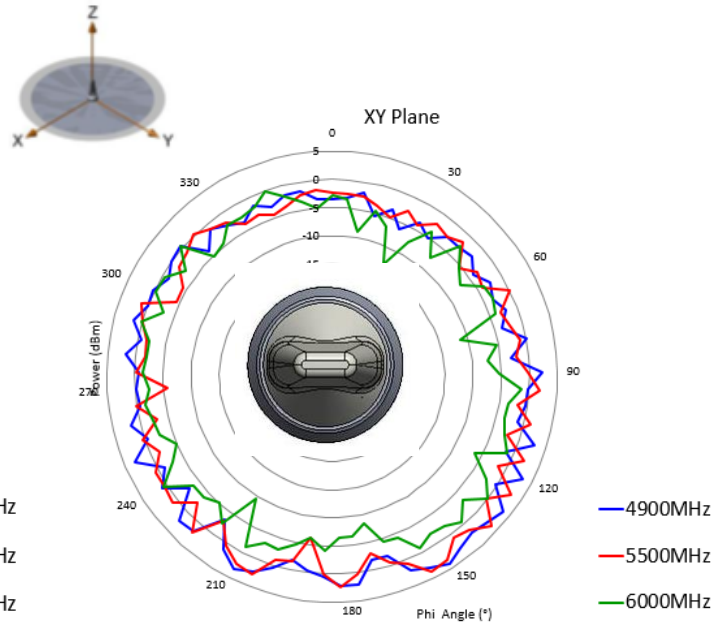
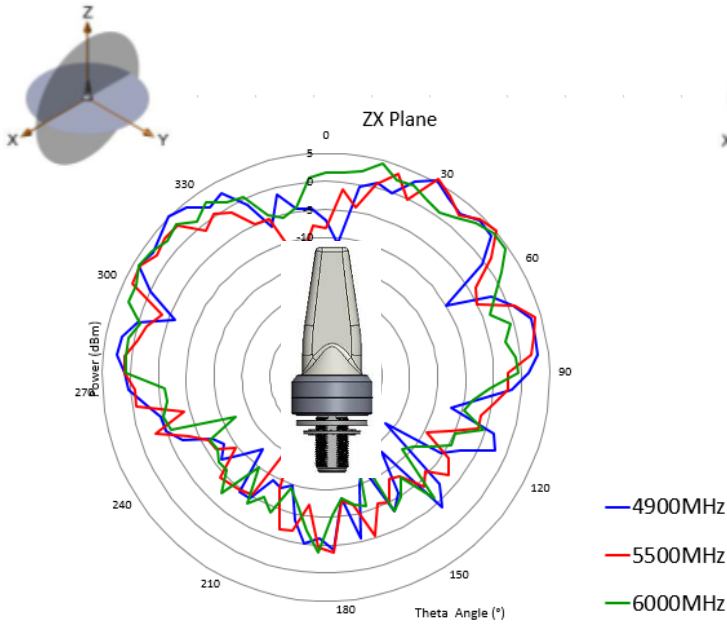
CHARTS

Free Space Radiation Pattern

SLPT4900DMNW SLPT4900DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Description: ON-VEHICLE LOW PROFILE ANTENNA

Series: Shadow

PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

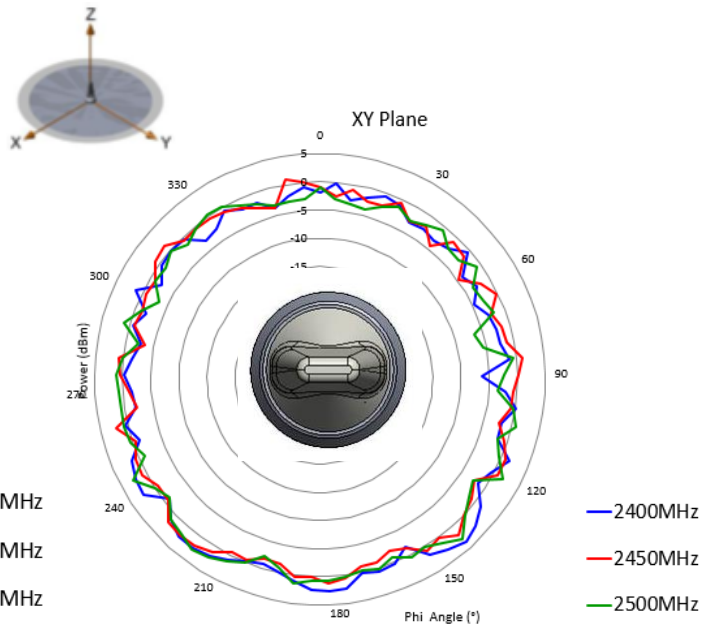
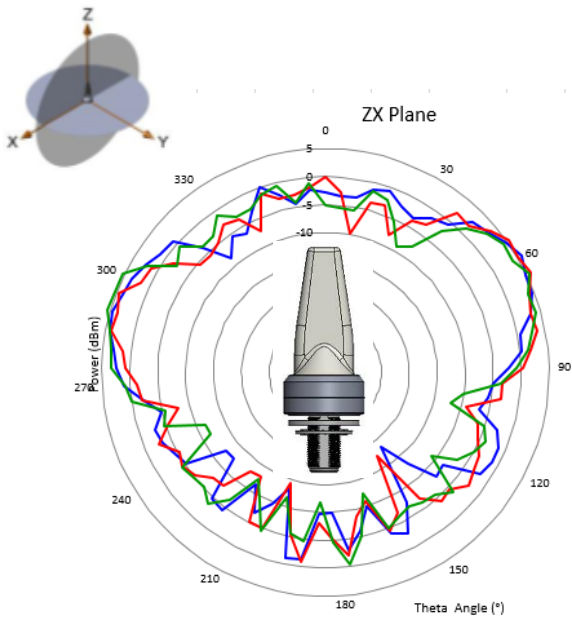
CHARTS

Free Space Radiation Pattern

SLPT2400/5900DMNW SLPT2400/5900DMN

Elevation Plane

Horizontal Plane



Issue: 1829

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Series: Shadow

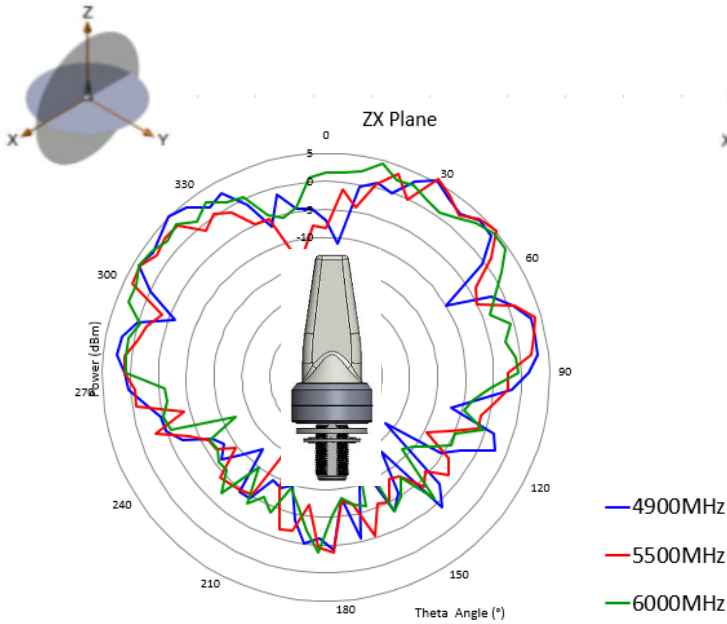
PART NUMBER: Black: SLPTXXX / White: SLPTXXXW

CHARTS

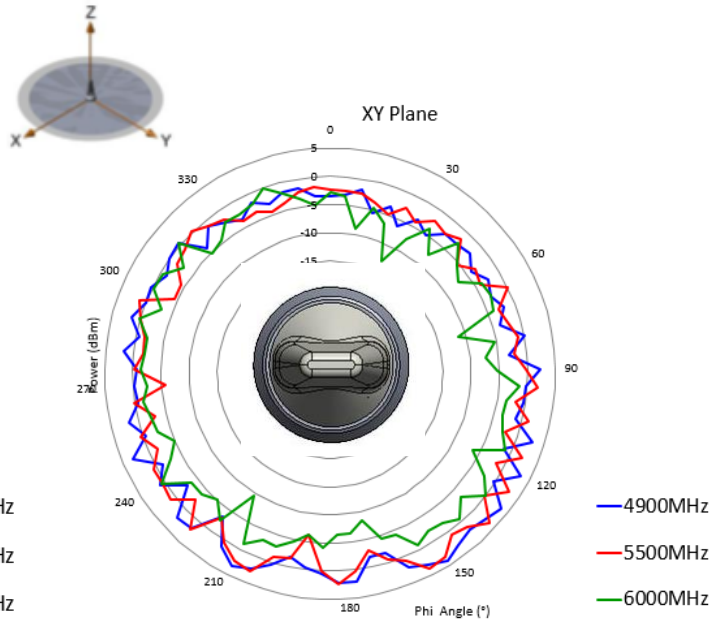
Free Space Radiation Pattern

SLPT2400/5900DMNW SLPT2400/5900DMN

Elevation Plane



Horizontal Plane



Issue: 1829

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